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IN THE CLAIMS:

Claims 1-11 (Cancelled)

12. (New) A process for the production of a compound of formula 1A

comprising the steps of:

a) desilylation of a compound of formula II,

wherein R4 is a silyl-protecting group, by adding a protic solvent to obtain a compound of formula III;

and

b) reacting the compound of formula III with an organic base of formula IV,

wherein R2 and R3 together represent a C4-alkylene group, and with the adjacent nitrogen atom form a saturated 5-membered heterocycle, and R1 represents a methyl group, to obtain the compound of formula 1A.

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- 13. (New) The process according to claim 12, wherein steps a) and b) are carried out simultaneously in a reaction container.
- 14. (New) The process according to claim 12, wherein the protic solvent comprises a (C_{1-4}) -alcohol or a mixture of several (C_{1-4}) -alcohols.
- 15. (New) The process according to claim 13, wherein the protic solvent comprises a (C_{1-4}) -alcohol or a mixture of several (C_{1-4}) -alcohols.
- 16. (New) The process according to claim 14, wherein the alcohol comprises at least one selected from the group consisting of methanol, ethanol, isopropanol, n- propanol, 2-methyl-propan-2-ol, glycol, glycerol, propanediol, or butanediol.
- 17. (New) The process according to claim 14, wherein the alcohol comprises isopropanol or 1,2-butanediol.
- 18. (New) The process according to 12, wherein the compound of formula IA obtained from step b) is obtained in the form of an acid addition salt and/or hydrate.
- 19. (New) The process according to 12, further comprising converting the compound of formula IA obtained from step b) to the form of an acid addition salt and/or a hydrate.
- 20. (New) The process according to claim 19, wherein the acid addition salt is a hydriodide or a hydrochloride.
- 21. (New) The process according to claim 19, wherein the hydrate is a monohydrate.
- 22. (New) The process according to claim 12, wherein the organic base of formula IV is added within 1 hour after the protic solvent is added to the compound of formula II.
- 23. (New) The process according to claim 12, wherein the organic base of formula IV is added within 30 minutes after the protic solvent is added to the compound of formula II.
- 24. (New) The process according to claim 12, wherein the organic base of formula IV is added within 10 minutes after the protic solvent is added to the compound of formula II.

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- 25. (New) The process according to claim 12, wherein the organic base of formula IV is added within 1 minute after the protic solvent is added to the compound of formula II.
- 26. (New) The process according to claim 12, wherein the compound of formula 1A produced has a $\Delta 3/\Delta 2$ ratio of greater than 95/5.
- 27. (New) The process according to claim 12, wherein the compound of formula 1A produced has a $\Delta 3/\Delta 2$ ratio of greater than 95/1.
- 28. (New) The process according to claim 12, wherein the compound of formula 1A produced has a $\Delta 3/\Delta 2$ ratio of greater than 95/0.5.
- 29. (New) The process according to claim 12, wherein the compound of formula 1A produced has a $\Delta 3/\Delta 2$ ratio of greater than 95/0.1.
- 30. (New) The process according to claim 12, wherein the compound of formula 1A is free of $\Delta 2$ compounds of formula 1A.
- 31. (New) A process for the production of cefepime of formula V

or one of its acid addition salts or its hydrates, the process comprising the steps of:

a) desilylation of a compound of formula II,

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wherein R4 is a silyl-protecting group, by adding a protic solvent to obtain a compound of formula III

b) reacting the compound of formula III obtained in step a) with a strong organic base of formula IVA

to obtain a compound of formula IA;

- c) optional conversion of the compound of formula IA obtained from step b) into a form of an acid addition salt and/or a hydrate; and
- d) acylation of the 7-amino group of the compound of formula IA obtained from step b) or of its acid addition salt and/or hydrate obtained from step c) to obtain the cefepime of formula V, wherein the steps a) and b) are carried out simultaneously in a reaction chamber.